

3-11-54. O.S.C. Antec
1-1-54. Early
S. Phillips Ref.
S-File

Form C-122-A
Revised April 20, 1955

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

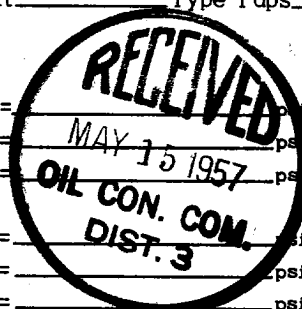
(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco M. V. Formation Blanco Verde County San Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp Date Test Filed 3-1-57

Operator Pacific Northwest Pipeline Lease San Juan 25-6 Well No. 25-13
Unit 1 Sec. 13 Twp. 29 N Rge. 6 W Pay Zone: From 5472 To 5970
Casing: OD 8 1/2 WT. 26 Set At 6065 Tubing: OD 2 3/8 WT. 10.8 T. Perf. 5092
Produced Through: Casing ^ Tubing XX Gas Gravity: Measured ^ Estimated .602
Date of Flow Test: From 4-1-57 To 4-2-57 * Date S.I.P. Measured 4-1-57
Meter Run Size ^ Orifice Size ^ Type Chart ^ Type Taps ^

OBSERVED DATA

Flowing casing pressure (Dwt) ^ psig + 12 = ^ psia (a)
Flowing tubing pressure (Dwt) ^ psig + 12 = ^ psia (b)
Flowing meter pressure (Dwt) ^ psig + 12 = ^ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading ^ psig + 12 = ^ psia (d)
Square root chart reading (^) ² x spring constant ^ = ^ psia (d)
Meter error (c) - (d) or (d) - (c) ^ ± ^ = ^ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing ^ = ^ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 795 psig + 12 = 517 psia (g)
Square root chart average reading (^) ² x sp. const. ^ = ^ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) ^ = 517 psia (h)
P_t = (h) + (f) ^ = 517 psia (i)
Wellhead casing shut-in pressure (Dwt) 1096 psig + 12 = 1096 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1096 psig + 12 = 1096 psia (k)
P_c = (j) or (k) whichever well flowed through ^ = 1096 psia (l)
Flowing Temp. (Meter Run) 71 °F + 460 ^ = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) ^ = 548 psia (n)



FLOW RATE CALCULATION

Q = 2071 X $\left(\frac{V(c)}{V(d)} \right)^* = \underline{2071}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 2071 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \cdot \frac{(1.073)^{.75}}{1.073} = \underline{2162}$ MCF/day

SUMMARY

P_c = 1096 psia
Q = 2071 Mcf/day
P_w = 602 psia
P_d = 548 psia
D = 2162 Mcf/day

Company Pacific Northwest Pipeline Corp
By Original signed by G. H. Peppin
Title District Production Engineer
Witnessed by ^
Company ^

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>441.8</u>	<u>0.853</u>	<u>371.87</u>	<u>316.8</u>	<u>207.29</u>	<u>362.37</u>	<u>602</u>

OK

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